FUTURECOM® SYSTEMS GROUP, ULC
a Motorola Solutions Company

Ordering Guide

PDR8000® – Portable Digital Repeater

Revision 3.3

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Ordering Instructions – PLEASE READ CAREFULLY

If only ordering spares or accessories, proceed to step 6. If only ordering services, proceed to section 7.

1. Select PDR8000® Frequency type (Section 1). NOTE: PDR8000® Frequency type model provides a repeater, power supply and AC and Unterminated DC Cables. (USB Programming cable not included refer to DDN9025)

2. Select optional features if applicable to your intended operation (Section 2).

3. For full duplex operation, select the appropriate duplexer option (Section 3). NOTE the frequency requirements can be found in Section 3 to ensure your frequency plan meets the operating requirements. Duplexer is not mandatory and the 'No Duplexer' option can be chosen when full duplex capability is not desired.

4. Select suitcase color options (Section 4).

5. Select required antennas (Section 5).

6. Select optional 50W Booster Pack (section 6)

7. Select spares (Section 7).

8. Select optional services as required (section 8).

Important Notes

1. Only the frequency bands shown in Section 3 are available as standard configurations. For custom filtering, please contact Futurecom: Futurecom.Sales@motorolasolutions.com

   1 Transmit and 1 Receive frequency are required for ordering. Units will be factory tuned to these frequencies, so accuracy is important.

2. Standard PDR8000® delivery time is 10-12 weeks from the time the order is placed and the frequency information is provided. Frequency information must be accurate and in accordance with the frequency plan requirements described in this document in order to avoid delays.
3. Duplexer is not mandatory and the 'No Duplexer' option can be chosen when full duplex capability is not desired.
4. PDR8000® models include standard AC & DC Power Cables.
5. For all sales inquiries, please contact Futurecom sales at Futurecom.Sales@motorolasolutions.com.
6. All pricing for the PDR8000® can be found in Motorola P-CAT or MOL.
7. Programming software is available for download at http://futurecom.com/support
8. Subscribe to our newsletter if you want to be informed about new releases and updates. Please visit http://futurecom.com/support/newsletter/

Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if custom frequency plan is viable and for quotations on viable plans. Futurecom.Sales@motorolasolutions.com

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1.PDR8000® Frequency Type

PDR8000® 136-174 MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT3148A	**Base Order Code** **PDR8000® – VHF**	VHF repeater, power supply and AC and DC Cables, Display with Local Channel Change		Wireline Connections; see section 2 for wireline connections options

PDR8000® 380-430 MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT3149A	**Base Order Code** **PDR8000® - UHF 380-430 MHz**	UHF 380-430 MHz repeater, power supply and AC and DC Cables, Display with Local Channel Change		Wireline Connections; see section 2 for wireline connections options

PDR8000® 450-470 MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT3150A	**Base Order Code** **PDR8000® - UHF 450-470 MHz**	UHF 450-470 MHz repeater, power supply and AC and DC Cables, Display with Local Channel Change		Wireline Connections; see section 2 for wireline connections options

PDR8000® 700 MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT3152A	**Base Order Code** **PDR8000® – 769 MHz-775 MHz/799-805 MHz**	700 MHz repeater, power supply and AC and DC Cables, Display with Local Channel Change		Wireline Connections; see section 2 for wireline connections options

PDR8000® 800MHz

ORDER CODE	ITEM	INCLUDES	PREREQUISITES	NOTES
TT3153A	**Base Order Code** **PDR8000® – 806-824/ 851-869 MHz**	800 MHz repeater, power supply and AC and DC Cables. Display with Local Channel Change		Wireline Connections; see section 2 for wireline connections options

2. Optional Features

ORDER CODE	ITEM	PREREQUISITES	NOTES
TT06253AA	**Add V.24 Wireline Operation**	TT3148A or TT3149A or TT3150A or TT3152A or TT3153A	If ordered as field upgrade- Order Code: **DDN2634A**
TT06319AA	**Add Deployment Profiles Capability** If the option for Deployment Profile Capability is purchased, PDR8000® can be programmed with up to ten different Deployment Profiles, each uniquely defining the operational characteristics of the PDR8000®.	TT3148A or TT3149A or TT3150A or TT3152A or TT3153A	If ordered as field upgrade- Order Code: **DDN2633A**
TT06582AA	**Add DFSI Operation**: Provides P25 standard IP wireline fixed station interface.	TT3148A or TT3149A or TT3150A or TT3152A or TT3153A	If ordered as field upgrade- Order Code: **DDN3285A** DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface.

3. Internal Duplexer Options

Frequency plans that do not meet Futurecom's specified frequency separation are custom orders. Please contact Futurecom to determine if a custom frequency plan is viable and for quotations on viable plans.
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OPTIONS ORDER CODE	ITEM	PREREQUISITES	NOTES
TT06261AA	No Duplexer Required Option	TT3148A or TT3149A or TT3150A or TT3152A or TT3153A	
TT06254AA	Add VHF Duplexer: • 4.5-5.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT3148A	If ordered as field upgrade- Order Code: **DDN2313A**
TT06255AA	Add 380-430 MHz Duplexer: • 9.5-10.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT3149A	If ordered as field upgrade- Order Code: **DDN2314A**
TT06256AA	Add 380-430 MHz Duplexer: • 4.5-5.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT3149A	If ordered as field upgrade- Order Code: **DDN2315A**
TT06257AA	Add 450-470 MHz Duplexer: • 4.5-5.5 MHz TX to RX Separation • 300KHz Wide Bandpass	TT3150A	If ordered as field upgrade- Order Code: **DDN2316A**

TT06259AA	Add 700 MHz Duplexer: • 30 MHz TX to RX Separation (min) • 11 MHz Wide Bandpass	TT3152A	If ordered as field upgrade-Order Code: **DDN2318A**
TT06260AA	Add 800 MHz Duplexer: • 45 MHz TX to RX Separation (min) • 10 MHz Wide Bandpass	TT3153A	If ordered as field upgrade-Order Code: **DDN2319A**
CUSTOM FILTERS			
TT06579AA	ENGINERING DESIGN TIME – Non-Recurring Engineering Fee (NRE)		
TT06580AA	CUSTOM FILTER DESIGN – TIER 1 (Per Unit) This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide. In order to determine if a custom frequency plan is viable, please contact Futurecom.Sales@motorolasolutions.com prior to placing an order.		
TT06581AA	CUSTOM FILTER DESIGN – TIER 2 (Per Unit) This option is for a custom filter design and must be ordered if frequency plans do not meet Futurecom's specified frequency separation stated in the ordering guide.In order to determine if a custom frequency plan is viable, please contact		

	Futurecom.Sales@motorolasolutions.com prior to placing an order.		

4. Suitcase Color Option

OPTIONS ORDER CODE	ITEM	PREREQUISITES	NOTES
TT06281AA	Standard: Black Suitcase	TT3148A or TT3149A or TT3150A or TT3152A or TT3153A	Zero Cost Option
TT06252AA	Alternative: Replaces standard black suitcase with yellow suitcase	TT3148A or TT3149A or TT3150A or TT3152A or TT3153A	Alternative cost to Standard Black Suitcase

5. Mag Mount Antennas

ANTENNAS FOR PDR8000® UNITY GAIN (0dBd), MAG MOUNT	FREQUENCY BAND [MHz]
DDN9014	136 – 174
DDN9015	380 – 520
DDN9016	764 – 869

6. Booster Pack

ORDER CODE	DESCRIPTION	NOTES
DDN2732A	VHF PDR8000® Booster Pack	
DDN2733A	UHF 380-430 MHz PDR8000® Booster Pack	Not available for Sale in Canada
DDN2734A	UHF 450-470 MHz PDR8000® Booster Pack	Not available for Sale in Canada
DDN2735A	700/800 MHz PDR8000® Booster Pack	Not available for Sale in Canada

Booster Pack includes Auxiliary Cable (FC #7W088X12-02) 8-Pin - on PDR8000® end which provides control between the PDR8000® and a Booster Pack

Note: If using PDR8000® R3.0 or older with booster Pack, Auxiliary Cable Required (FC #7W088X12-01) 6-Pin (on PDR8000® end)

7. PDR8000® Spares & Options Ordered Separately

Accessories

ORDER CODE	DESCRIPTION	CONNECTOR TYPE/CABLE LENGTH
DDN2300A	PDR8000® AC Power Cable (FC # NKPF-515-D-2)	6‘
DDN2301A	PDR8000® DC Power Cable (FC # 7W088X11-01) for battery backup.	8’
DDN2332A	PDR8000® DC Power Cable (FC # 7W088X11-02) Unterminated	8’

ORDER CODE	DESCRIPTION	CONNECTOR TYPE/CABLE LENGTH
DDN2336A	Battery Backup for Suitcase PDR8000® 	
DDN2334A	SPARE CHARGER FOR DVR-LX® / PDR8000® BATTERY BACK UP 	N/A
DDN9025A	PDR8000®/DVR Programming Cable (FC #AK672-3-R)	USB A to USB B, 10’
DDN2333A	PDR8000® Auxiliary Cable (FC #7W088X12-02) 8-Pin on PDR8000® end - Provides control between the PDR8000® and a Booster Pack Note: If using PDR8000® R3.0 or older with booster Pack, Auxiliary Cable Required (FC #7W088X12-01) 6-Pin on PDR8000® end.	
DDN2335A	Optional - Zippered Pouch	

Duplexers

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ORDER CODE	DESCRIPTION	TX to RX SEPARATION	BANDPASS
DDN2313A	PDR8000® Duplexer- VHF	4.5-5.5 MHz TX to RX Separation	300KHz Wide Bandpass
DDN2314A	PDR8000® Duplexer – UHF380-430 MHz	9.5-10.5 MHz TX to RX Separation	300KHz Wide Bandpass
DDN2315A	PDR8000® Duplexer - UHF 380-430 MHz	4.5-5.5 MHz TX to RX Separation	300KHz Wide Bandpass
DDN2316A	PDR8000®Duplexer - UHF 450-470 MHz	4.5-5.5 MHz TX to RX Separation	300KHz Wide Bandpass
DDN2318A	PDR8000® Duplexer – 700 MHz	30 MHz TX to RX Separation (min)	11 MHz Wide Bandpass
DDN2319A	PDR8000® Duplexer – 800 MHz	45 MHz TX to RX Separation (min)	10 MHz Wide Bandpass

Software Options

ORDER CODE	DESCRIPTION
DDN2633A	Enable Deployment Profiles Capability
DDN2634A	Enable V.24
DDN3285A	PDR8000® DFSI CAPABILITY - DFSI Protocol Version 1 on the Ethernet interface. Analog operation (or Mixed-mode operation) is supported on Ethernet (DFSI) interface.

8. Services

Futurecom's standard hardware warranty is 18 months starting from the date the product ships from Futurecom. Please reference Futurecom's Terms and Conditions of Sale, Section 7 regarding standard hardware warranty https://www.futurecom.com/terms-conditions/

ORDER CODE	DESCRIPTION	NOTES AND CONDITIONS
DDN2303A	PDR8000® 4 Year Extended Hardware Warranty	Extends standard 18 month hardware warranty by 4 years. Can only be purchased once per unit. Must be purchased prior to expiration of standard hardware warranty.
DDN2302A	PDR8000® 1 Year Extended Hardware Warranty	Extends existing hardware warranty by one year. Must be purchased prior to expiration of any existing hardware warranty. Standard 18 month warranty can be extended by a maximum of 4 years.
DDN3699A	On-site and/or Virtual Training (BASIC) 2 Courses Available: **1. Training the Trainer/end user**	Maximum 1 day; see EXTENDED training for additional days. Minimum 2 weeks advance notice required however subject to resource availability. Applies to North America only.

ORDER CODE	DESCRIPTION	NOTES AND CONDITIONS
	1 Day (Est 4 hours) end user training gives the end user a general understanding of Futurecom solutions through your agencies particular use case, highlighting best practices through situations commonly seen in the field during deployment situations. Participants will have hands on training with the newly implemented solution for practical operation and control. **OR** **2. Technical and Programming Training** 1 Day Technical and Programming training gives the radio technician an in depth understanding on how the DVR-LX®/VRX1000/PDR8000® is integrated into the everyday operation of the agency. Highlighting code plug compatibility, Futurecom Repeater Configurator (FRC) software functionality and programming for optimal end user experience.	Training the trainer requires the newly implemented DVRS/VRX1000/PDR8000® to be tested and in use on the network to get the most out of the Training the Trainer. Standard training package. Includes soft copy of training materials. Customized training available subject to content and price negotiation. Technical and Programming Training, Futurecom Systems Group, ULC requires at least two full functioning Portable radios (PSUs) programmed to the current system, at least one installed DVR-LX®/VRX1000/PDR8000®. For DVRS and VRX1000 use a Mobile Radio (MSU) radio set is required to conduct this training properly.
DDN3700A	On-site and/or Virtual Training (EXTENDED)	Must purchase BASIC virtual training.